MTD-RT Series

MTD-RT Series

Line-Interactive Racktower UPS
1000, 1500, 2000, 3000VA

Neu / New

New design
Additional models

Description

The MTD RT and MTD XL RT is EFFEKTA®'s high-end line-interactive version of the MTD series. The back-up time of the XL-models can be extended by additional external battery packs in a unified design.

Its RackTower housing and the rotating LCD display allow both the use as a tower unit as well as installation in 19" cabinets.

Features

- UPS-classification VI-SS-311 (IEC 62040-3)
- Line-interactive-technology
- Excellent power factor of 0.9
- High efficiency (> 97%)
- XL-models expandable by external battery packs
- "RackTower" can be used both as a standalone unit, as well as a 19" rack mount unit
- Huge input voltage range
- User-friendly LCD display with backlight depending on the operating condition
- Sine wave output
- Automatic frequency detection
- Equiped with RS-232 an USB port as standard
- Slot for optional adapters: relay-card or SNMP
- Software-Suite „PowerShut" for UPS Management in almost all current operating systems
- 24 months' warranty

Image left: On the user-friendly control panel the status of the UPS is visible at first glance from the color of the background illumination.

Errors & omissions excepted

Top left: MTD 1000/1500 RT rear view
Middle left: MTD 2000 RT rear view
Bottom left: MTD 3000 RT rear view

The MTD RT series is equipped with RS-232, USB and emergency contacts as standard. The card slot can be equipped with additional communications cards like a SNMP adapter or a relay card.

All MTD RT models offer at least 8 IEC C13 (10A) Consumer outputs.

The 3000 VA model additionally provides a 16 ampere IEC C19 output.

Specifications

Model			MTD 1000 RT		MTD 1500 RT		MTD 2000 RT		MTD 3000 RT	
			Standard	XL	Standard	XL	Standard	XL	Standard	XL
Power	Power in VA		1000		1500		2000		3000	
	Power in W		900		1350		1800		2700	
Autonomy time	100% load (XL models expandable)		4.5 min.	> 20 min.	3 min.	> 19 min.	4.5 min.	> 19 min.	3 min.	> 20 min.
	50% load (XL models expandable)		10 min.	> 45 min.	7 min.	> 45 min.	10 min.	> 45 min.	7 min.	> 45 min.
	Minimum number of external battery packs		0	1	0	2	0	1	0	2
Input	Nominal input voltage / voltage range		230VAC / 161~276VAC							
	Input frequency range		50/60Hz normal mode / 40-70Hz generator mode							
	Boost threshold		207VAC ± 4% / 215VAC ± 4% (setup 230VAC wide range)							
	Undervoltage threshold		161VAC ± 4% / 171VAC ± 4% (setup 230VAC wide range)							
	Voltage return threshold		243VAC ± 4% / 236VAC ± 4% (setup 230VAC wide range)							
	Overvoltage threshold		276VAC ± 4% / 266VAC ± 4% (setup 230VAC wide range)							
Output	Output voltage		220, 230, 240VAC							
	Voltage tolerance (battery mode)		± 5% RMS							
	THD(i) (typical)	linear load	< 3% THD							
		non-linear load	< 6% THD							
	Frequency-tolerance	synchronization range	45-55Hz / 55-65Hz							
		battery mode	50/60 ±0.1Hz							
	Power factor		0.9							
	Wave form		sinusoidal							
	Efficiency		>97% (Normal operation, charged batteries)							
DC start-up	Black start		Yes							
Switch time	Typical		2 ~ 6msec.							
Battery	Nominal voltage		36VDC		36VDC		72VDC		72VDC	
	Number of blocks x capacity / block		On request / depending on the battery assembly							
	Type		Maintenance free sealed lead-acid battery							
	Life expectancy		Approximately 5 years (subject to environment.) Optional 10 years							
	Recharging time		Approximately 3 h to 90% (with one battery pack)							
Display	LCD		UPS status, I/P&O/P Voltage& Frequency, Load, Battery Voltage, Capacity, Temperature							
	LCD-backlight		Normal (blue) / Fault (Red)							
Audible alarm	Battery mode / Battery low		Beeping every 4 seconds / Beeping every second							
	USV fault / Overload		Beep continuously / Beeping every second							
Interface			RS232, USB, EPO, Card slot for optional SNMP / relay card							
Environment	Temperature		0°C – 40°C							
	Humidity		0-95% non-condensing							
	Operating height		0 - 1500 meter @ 0~40°C / 1501 - 3000 meter @ 0~35°C							
	Acoustic Noise		< 50 dBA @ 1 m							
Mechanic	Casing		steel-tower / front plastic							
	Protection class		IP 20							
	Dimensions (HxWxD in mm)	UPS	86.5 (2U) x 438 (19“) x 430				86.5 (2HE) x 438 (19“) x 600			
		batterie pack	86.5 (2U) x 438 (19“) x 430 (XL only)				86.5 (2U) x 438 (19“) x 600 (XL only)			
	Weight	UPS	16 kg	12 kg	16 kg	12 kg	29.5 kg	18.6 kg	29.5 kg	18.6 kg
		batterie pack max.	-	20.5 kg	-	20.5 kg	-	33.3 kg	-	33.3 kg
Terminals	Input		1 x IEC (10A)				1 x IEC (16 A)			
	Output		8 x IEC C13 (10A)				8 x IEC C13 (10A)		8 x IEC C13 (10A) + 1 x IEC C19 (16A)	
Regulations / standards	Safety		EN 62040-1							
	EMC		EN 62040-2 Class C1							
	Certifications		CE							

Errors & omissions excepted